# **PCT**

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PH/HM/8170INT	FOR FURTHER ACTION See Form PCT/IPEA/416							
International application No.	International filing date (day/month/year)	Priority date (day/month/year)						
PCT/IB 2002/002985	23-07-2002	18-06-2002						
International Patent Classification (IPC) or national classification and IPC								
G06F 3/02, H03M 11/10								
Applicant								
NOKIA CORPORATION ET	AL							
<ol> <li>This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</li> </ol>								
2. This REPORT consists of a total of 4 sheets, including this cover sheet.								
3. This report is also accompanied	by ANNEXES, comprising:	İ						
a. (sent to the applica	nt and to the International Bureau) a total of	sheets, as follows:						
,— ,	e description, claims and/or drawings which have							
and/or shee	s containing rectifications authorized by this Au							
	rye instructions).  1 supersede earlier sheets, but which this Author	ity considers contain an amendment that goes						
beyond the	disclosure in the international application as filed							
Supplement	al Box.							
b (sent to the Internal	ional Bureau only) a total of (indicate type and n	• • • • • • • • • • • • • • • • • • • •						
readable form only	, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the							
Administrative Inst		bequence Essing (see Section 602 of the						
4. This report contains indications	relating to the following items:							
Box No. I Basis	the report							
Box No. II Priori	у							
Box No. III Non-e	tablishment of opinion with regard to novelty, inventive step and industrial applicability							
Box No. IV Lack	unity of invention							
	Box No. V  Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
	n documents cited	·						
Box No. VII Certai	n defects in the international application							
Box No. VIII Certai	n observations on the international application	bservations on the international application						
Date of submission of the demand	Date of completion	of this report						
		•						
27-11-2003	14-09-2004							
Name and mailing address of the IPEA/S	SE Authorized officer							
Patent- och registreringsverket Box 5055		· .						
S-102 42 STOCKHOLM	Oskar Pihl	gren /LR						
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Form PCT/IPEA/409 (cover sheet) (January 2004)

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/IB 2002/002985

1.	With 1					
	otherw	egard to the language rise indicated under thi	e, this report is based on the international application in the lang	guage in which it was filed, unless		
			n a translation from the original language into the following langu of a translation furnished for the purposes of:	age,		
Į	international search (under Rules 12.3 and 23.1(b))					
	publication of the international application (under Rule 12.4)					
		international j	preliminary examination (under Rules 55.2 and/or 55.3)			
2.	furnish	ned to the receiving Of e not annexed to this re		placement sheets which have been in this report as "originally filed"		
İ	닏		ication as originally filed/furnished			
	$\boxtimes$	the description:				
	:	pages <u>1-6</u>		as originally filed/furnished		
		pages*	received by this Authority on received by this Authority on			
	$\square$	the claims:		•		
				as originally filed/furnished		
		pages 7,8	as amended (together wit			
	•		received by this Authority on 2			
	•	pages*	received by this Authority on			
	X	the drawings:				
ŀ	دعا	pages 1		as originally filed/furnished		
		pages*	received by this Authority on			
l		pages*	received by this Authority on			
		a sequence listing and	/or any related table(s) - see Supplemental Box Relating to Seque	ence Listing.		
3.		The amendments have	e resulted in the cancellation of:			
		the descript	ion, pages			
		<del></del>	Nos.			
			s, sheets/figs	•		
		the sequence	e listing (specify):			
		any table(s)	related to the sequence listing (specify):			
4.			established as if (some of) the amendments annexed to this repe been considered to go beyond the disclosure as filed, as indicated to the second seco			
		the descripti	ion, pages			
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		1 . 1	s, sheets/figs			
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*	If item	4 applies, some or all d	of those sheets may be marked "superseded."			

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Во	x No. V	Reasoned statement u		35(2) with regard to novelty, inventive step or industrial appling such statement	icability;
1.	Statement	· :			
	Novel	lty (N)	Claims Claims	1-21	YES NO
	Invent	tive step (IS)	Claims Claims	1-21	YES NO
	Indust	trial applicability (IA)	Claims Claims	1-21	YES NO

#### 2. Citations and explanations (Rule 70.7)

#### Cited documents

D1: Bantz, D. et al.: Keyboard device for upper and lower case keying without shifting. IBM Technical Disclosure Bulletin, vol. 21, vo. 9, February 1979.

D2: GB 1320895 A

D3: US 5805084 A

#### Statement

D1 describes a keyboard device for upper and lower case keying without shifting. In the time-delay method a stroke of long duration is interpreted as an upper case stroke. The threshold for time delayed is determined by the user. Keyboards implemented in the capacitive-sense technology may be designed to offer time-discriminant methods for case determination. Electronic circuitry scans all the points periodically to determine if their if their capacitance exceeds some reference value.

Hence, it is known by D1 a system and method for a user input device having a first mode (lower case) and a second mode (upper case). The input device transitions from the first mode to the second mode when the user strikes a key (if the duration of the keystroke is above a threshold).

D2 discloses a push button signal detector (7) and a duration timer (8). If the duration of button actuation is less than a first predetermined period (such as half a second), the significance of the action is deemed to be the first

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#### Supplemental Box

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In case the space in any of the preceding boxes is not sufficient. Continuation of: Box V

first mode). For instance this significance (a significance can be a normal use of the push-buttons. If the duration of the button actuation is above first predetermined time period, it corresponds second to significance (a second mode).

The difference between the present invention and prior-art cited documents, is that in the present invention the touchentry user input device has means to exit from the first mode and entry into the second mode at the initiation of a user input. The process of exiting the first mode and the process of discriminating will therefore overlap, rather than occur in a strict sequence. This difference is not considered to be obvious to a person skilled in the art. Therefore, what is claimed in claims 1-21 is novel and considered to involve an inventive step.

Furthermore what is claimed in the amended claim 18 is considered to lack clarity and conciseness within the meaning of Article 6, PCT. It seems as if the following features from the originally filed claim 18 have been mistakenly omitted: "from a first mode in which the device is not capable of performing a first function to a second mode in which the device is capable of performing a first".